Performance Data Sheet

AJA2419YXA

General Information

Model	AJA2419YXA	**Refrigerant**	R-134a
Test Condition	ARI	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	4.4°C (40°F) RETURN GAS	**Motor Type**	CSR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
-40	Btu/h	970	719	542	414	309	202	65.6
	Watts	216	244	258	254	228	176	93.4
	Amps	3.92	4.31	4.50	4.49	4.25	3.77	3.03
	Lb/h	12.9	10.0	8.08	6.61	5.17	3.35	0.71
-35	Btu/h	1270	979	770	614	484	355	202
	Watts	271	292	301	295	269	219	141
	Amps	4.32	4.65	4.81	4.79	4.56	4.12	3.44
	Lb/h	17.1	13.8	11.5	9.74	8.11	6.19	3.52
-30	Btu/h	1600	1280	1030	849	695	546	376
	Watts	331	347	353	346	322	275	203
	Amps	4.75	5.04	5.17	5.15	4.94	4.54	3.93
	Lb/h	21.8	18.1	15.5	13.5	11.7	9.67	7.02
-25	Btu/h	1960	1600	1330	1120	941	771	585
	Watts	392	405	410	405	383	342	277
	Amps	5.19	5.44	5.56	5.54	5.37	5.02	4.49
	Lb/h	27.0	22.9	19.9	17.7	15.8	13.8	11.2
-20	Btu/h	2360	1960	1660	1420	1220	1030	826
	Watts	453	464	470	467	450	416	360
	Amps	5.62	5.84	5.96	5.96	5.83	5.55	5.11
	Lb/h	32.6	28.1	24.9	22.5	20.5	18.4	15.9
-15	Btu/h	2780	2350	2020	1750	1530	1320	1100
	Watts	510	521	529	530	520	495	449
	Amps	6.04	6.24	6.36	6.39	6.31	6.11	5.76
	Lb/h	38.6	33.8	30.4	27.8	25.7	23.7	21.3
-10	Btu/h	3230	2770	2400	2110	1860	1630	1400
	Watts	561	573	585	592	590	575	542
	Amps	6.42	6.61	6.75	6.82	6.80	6.68	6.44
	Lb/h	45.0	39.9	36.2	33.6	31.4	29.5	27.2
-5	Btu/h	3710	3210	2810	2490	2220	1970	1720
	Watts	601	617	634	649	657	654	635
	Amps	6.76	6.95	7.11	7.23	7.28	7.25	7.13
	Lb/h	51.7	46.3	42.5	39.7	37.6	35.7	33.6

0	Btu/h	4200	3670	3240	2900	2600	2340	2070
	Watts	630	651	675	699	719	729	726
	Amps	7.03	7.23	7.43	7.60	7.74	7.81	7.82
	Lb/h	58.7	53.1	49.2	46.3	44.3	42.5	40.5
5	Btu/h	4720	4150	3690	3320	3000	2720	2440
	Watts	643	671	704	739	771	797	811
	Amps	7.22	7.45	7.69	7.93	8.15	8.34	8.49
	Lb/h	66.0	60.3	56.2	53.3	51.3	49.6	48.0
10	Btu/h	5250	4650	4160	3760	3430	3120	2830
	Watts	639	674	718	766	813	855	889
	Amps	7.33	7.59	7.88	8.20	8.52	8.83	9.12
	Lb/h	73.6	67.7	63.5	60.7	58.7	57.2	55.8

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.532873E+04	1.121926E+03	7.040954E+00	2.117182E+02
C2	1.827205E+02	1.066729E+01	1.879774E-01	2.401386E+00
C3	-2.462986E+02	-1.860222E+01	-3.774359E-02	-3.632256E+00
C4	3.339113E-01	-5.699780E-01	-3.073425E-03	7.062062E-04
C5	-1.325421E+00	-2.531717E-01	-3.604285E-03	-1.895023E-02
C6	1.683551E+00	2.130233E-01	6.839963E-04	2.720993E-02
C7	-3.075757E-03	-3.825588E-03	-1.912404E-05	-3.810361E-05
C8	6.224598E-04	3.321809E-03	1.939154E-05	6.279178E-05
C9	3.813269E-03	2.168967E-03	2.309011E-05	8.613397E-05
C10	-4.290600E-03	-7.168323E-04	-2.677165E-06	-7.142125E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature